

Amendments to the Claims:

Following is a complete listing of the claims pending in the application, as amended, which replaces all prior versions and listings of claims in the application:

1-65. (Canceled.)

66. (Previously Presented) A method in a wearable computer for providing information about a current state of a predefined group having multiple distributed members, the current state modeled with multiple state attributes that each represent an aspect of the current state, the modeling of the current state of the group using information from multiple remote characterization systems that each model a current state of one of the members of the group and that each include modules to supply values related to the current state of that one group member, the method comprising:

receiving an indication of one of the multiple state attributes that model the current state of the predefined group;

determining multiple of the members of the group that have current states that are related to the current state aspect represented by the indicated one state attribute;

for each of the determined group members, identifying the characterization system that models the current state of that group member;

repeatedly modeling a changing current state of the predefined group, by

gathering current state information for each of the determined group members from the identified characterization system for that group member, the gathered current state information related to the current state aspect represented by the indicated one state attribute; and

in response to the gathering, generating a current value for the indicated one attribute based on the gathered state information to model an aspect of the current state of the predefined group; and

providing an indication of one or more of the generated current values of the indicated one state attribute so as to provide information about the modeled current state of the group.

67. (Original) The method of claim 66 wherein a user of the wearable computer is one of the members of the group, and including executing a characterization system that models the current state of the user with server modules that supply values related to the current state of the user and client modules that process the supplied values.

68. (Original) The method of claim 67 wherein the gathering of the current state information from an identified characterization system includes the executing characterization system obtaining that current state information from the identified characterization system.

69. (Original) The method of claim 66 wherein each of the remote characterization systems executes on a distinct wearable computer.

70. (Original) The method of claim 66 wherein the determined members of the group include all of the members.

71. (Original) The method of claim 66 wherein each of the characterization systems executes on a distinct computer having a user, and wherein the group includes the users of the distinct computers.

72. (Original) The method of claim 66 wherein each of the characterization systems executes on a distinct computer, and wherein the group includes the distinct computers.

73. (Original) The method of claim 66 wherein the current state aspect represented by the indicated one state attribute includes information about a physical environment shared by the members of the group.

74. (Original) The method of claim 66 wherein the current state aspect represented by the indicated one state attribute includes information about a cyber-environment shared by the members of the group.

75. (Original) The method of claim 66 wherein the characterization systems are hierarchically organized such that the identified characterization systems are supervisors each having an associated group of other subordinate characterization systems, and wherein the current state aspect represented by the indicated one state attribute is related to a current state of the hierarchical organization.

76. (Original) The method of claim 66 wherein each of the characterization systems is specialized to model a portion of a current state of a single user, and wherein the current state aspect represented by the indicated one state attribute is an aspect of the current state of the user that is represented by a combination of information for multiple of the modeled portions.

77. (Original) The method of claim 66 wherein the generated value represents an aggregation of the gathered state information.

78. (Original) The method of claim 66 wherein the generated value represents a collective aspect of the members.

79. (Previously Presented) A method in a first computer for providing information about a current state of a group that is represented with multiple attributes, the group having multiple members, the method comprising:

receiving an indication of one of the attributes that models a first aspect of the state of the group;

determining multiple characterization modules that each have access to aspects of state information for at least one of the members of the group such that the aspects are related to the indicated one attribute;

gathering current information about the aspects of the state information that are related to the indicated one attribute from the determined characterization modules; and

in response to the gathering, generating a current value for the indicated one attribute based on the gathered current information to represent the current state of the group for the

modeled first aspect, so that additional action may be dynamically taken in response to the current state of the group.

80. (Original) The method of claim 79 including:
generating a value for the indicated one attribute based on the gathered information; and
providing an indication of the generated value of the one attribute.

81. (Original) The method of claim 79 wherein each of the determined characterization modules executes on a distinct computer and models a state of a user of that computer, and wherein the group includes the users of the distinct computers.

82. (Original) The method of claim 79 wherein each of the determined characterization modules executes on a distinct computer and models a state of that computer, and wherein the group includes the distinct computers.

83. (Original) The method of claim 79 wherein the group includes the determined characterization modules.

84. (Original) The method of claim 79 wherein the first state aspect modeled by the one attribute represents information about a physical environment common to computers on which the determined characterization modules are executing or common to users of those computers.

85. (Original) The method of claim 79 wherein the first state aspect modeled by the one attribute represents information about a cyber-environment common to computers on which the determined characterization modules are executing or common to users of those computers.

86. (Original) The method of claim 79 wherein the determined characterization modules are hierarchically organized such that at least some of the characterization modules are supervisors each having an associated group of other subordinate characterization modules, and

wherein the first state aspect modeled by the one attribute is related to a state of the hierarchical organization.

87. (Original) The method of claim 79 wherein each of the determined characterization modules is specialized to model a portion of a state of a single user, and wherein the first state aspect modeled by the one attribute is related to a state of the user that is represented by a combination of information for multiple of the modeled portions.

88. (Original) The method of claim 79 wherein the first state aspect modeled by the one attribute represents an aggregation of state information for each of the members of the group.

89. (Original) The method of claim 79 wherein the first state aspect modeled by the one attribute represents a collective aspect of the members of the group.

90. (Original) The method of claim 79 wherein the first state aspect modeled by the one attribute represents state information for a selected subset of the members of the group.

91. (Original) The method of claim 79 wherein the first state aspect modeled by the one attribute represents a state shared by each of the members of the group.

92. (Canceled.)

93. (Original) The method of claim 79 wherein the received indication of the one attribute additionally includes an indication of characterization modules, and wherein the determining of the characterization modules includes selecting the indicated characterization modules.

94. (Previously Presented) A method in a first computer for providing information about a state of a group that is represented with multiple attributes, the group having multiple members, the method comprising:

receiving an indication of one of the attributes that models a first aspect of the state of the group;

determining multiple characterization modules that each have access to aspects of state information for at least one of the members of the group such that the aspects are related to the indicated one attribute;

gathering information about the aspects of the state information that are related to the indicated one attribute from the determined characterization modules so that a value for the indicated one attribute can be generated based on the gathered information;

determining whether the information gathered from one of the determined characterization modules satisfies a criteria; and

when it is determined that the gathered information does not satisfy the criteria, obtaining additional information from the one determined characterization module that satisfies the criteria and replacing the gathered information from the one determined characterization module with the obtained additional information.

95. (Original) The method of claim 79 wherein the determined characterization modules are remote from each other such that the gathering of the information involves gathering distributed information.

96. (Original) The method of claim 79 wherein a user of the first computer is one of the members of the group.

97. (Original) The method of claim 79 wherein the first computer is one of the members of the group.

98. (Original) The method of claim 79 wherein the indicated one attribute models information about a mental state of the members of the group.

99. (Original) The method of claim 79 wherein the indicated one attribute models information about a physical environment of the members of the group.

100. (Original) The method of claim 79 wherein the indicated one attribute models information about a cyber-environment of the members of the group.

101. (Original) The method of claim 79 wherein the indicated one attribute models a current prediction about a future state.

102. (Original) The method of claim 79 including receiving a request from a client for a value of the indicated one attribute and supplying the value to the client.

103. (Original) The method of claim 102 wherein receiving of the supplied value by the client prompts the client to present information to a user.

104. (Original) The method of claim 79 wherein the determining of the multiple characterization modules is based on previously received registration messages from each of the multiple characterization modules that indicate the accessible aspects.

105. (Original) The method of claim 79 wherein security information must be received for a determined characterization module before any information is accepted from that characterization module.

106. (Original) The method of claim 79 including providing security information to at least some of the determined characterization modules to facilitate the gathering of the information from those determined characterization modules.

107. (Canceled.)

108. (Previously Presented) A computer-readable medium whose contents cause a computing device to provide information about a current state of a group that is represented with multiple state attributes, the group having multiple members, by performing a method comprising:

receiving an indication of one of the state attributes that models a first aspect of the state of the group;

determining multiple modules that each have access to aspects of state information for a member of the group such that the aspects are related to the indicated one attribute;

gathering current information about the aspects of the state information that are related to the indicated one attribute from the determined modules; and

providing the gathered current information to a client so that a current value for the indicated one attribute can be generated based on the gathered information to reflect the current state of the group for the modeled first aspect.

109. (Original) The computer-readable medium of claim 108 wherein the computer-readable medium is a memory of the computing device.

110. (Original) The computer-readable medium of claim 108 wherein the computer-readable medium is a data transmission medium transmitting a generated data signal containing the contents.

111. (Currently Amended) A computing device for providing information about a current state of a group that is represented with multiple attributes, the group having multiple members, comprising:

a memory;

a receiver component that when executed in the memory is capable of receiving an indication of one of the attributes that models a first aspect of the current state of the group; and

a group state component that when executed in the memory is capable of determining multiple characterization modules that each have access to aspects of state information for at least one of the members of the group such that the aspects are related to the indicated one

attribute and of gathering current information about the aspects of the state information that are related to the indicated one attribute from the determined characterization modules so that a value for the indicated one attribute can be generated based on the gathered information to model the first aspect of the current state of the group.

112. (Currently Amended) The computing device of claim 111 wherein the receiver component and the group state component ~~are executing each~~ include software instructions for execution in the memory of the computing device.

113. (Original) The computing device of claim 111 further comprising multiple sources and multiple clients executing in memory of the computing device.

114. (Currently Amended) A computing device for providing information about a current state of a group that is represented with multiple attributes, the group having multiple members, comprising:

a memory;

means for receiving an indication of one of the attributes that models a first aspect of the state of the group;

means for determining multiple characterization modules that each have access to aspects of state information for at least one of the members of the group such that the aspects are related to the indicated one attribute; and

means for gathering current information about the aspects of the state information that are related to the indicated one attribute from the determined characterization modules so that a current value for the indicated one attribute can be generated based on the gathered information to reflect the current state of the group for the modeled first aspect.

115. (Previously Presented) A method in a portable computer for providing information about a current shared context of a predefined group of multiple users of portable computers, the context of the group modeled with multiple context attributes, the method comprising:

receiving indications of the predefined group of multiple portable computer users and of one of the context attributes that represents a characteristic of the shared context of the group;

for each of the users of the predefined group, identifying a module that can provide context information for that user; and

repeatedly modeling a current shared context of the predefined group, by

gathering from the identified modules current context information for the users that is related to the represented characteristic;

in response to the gathering, generating a current value for the one context attribute based on the gathered current context information to represent the current shared context of the group for the represented characteristic; and

providing the generated current value, so that additional action may be dynamically taken in response to the current shared context of the group.

116. (Canceled.)

117. (Original) The method of claim 115 including modeling the represented characteristic of the shared context of the group based on the gathered context information.

118. (Canceled.)

119. (Previously Presented) The method of claim 115 wherein receiving of a provided generated current value by a client prompts the client to present information to a user.

120. (Original) The method of claim 115 wherein each of the identified modules executes on a distinct computer and models a context of a user of that computer, and wherein the multiple users include the users of the distinct computers.

121. (Original) The method of claim 115 wherein the represented characteristic reflects a physical environment shared by the multiple users.

122. (Original) The method of claim 115 wherein the represented characteristic reflects a cyber-environment shared by the multiple users.

123. (Original) The method of claim 115 wherein the represented characteristic reflects a mental state shared by the multiple users.

124. (Original) The method of claim 115 wherein the represented characteristic reflects an emotional state shared by the multiple users.

125. (Original) The method of claim 115 wherein the represented characteristic reflects a physical state shared by the multiple users.

126. (Original) The method of claim 115 wherein the multiple users are part of a hierarchical organization, and wherein the represented characteristic reflects a context of the hierarchical organization.

127. (Original) The method of claim 115 wherein the represented characteristic reflects an aggregation of context information for the users.

128. (Original) The method of claim 115 wherein the represented characteristic reflects a collective characteristic of the users.

129. (Original) The method of claim 115 wherein the represented characteristic reflects information for a selected subset of the users.

130. (Original) The method of claim 115 wherein each of the identified modules is specialized to model the same aspect of a context of a user, and wherein the represented characteristic reflects an aggregate of the modeled aspects of the contexts of the multiple users.

131. (Previously Presented) A computer-readable medium containing instructions that when executed cause a computing device to provide information about a current context of a predefined group of multiple users that is modeled with multiple context attributes, by performing a method comprising:

receiving an indication of one of the context attributes that represents a characteristic of the context of the predefined group of multiple users;

determining at least some of the multiple users of the predefined group whose contexts are related to the represented characteristic;

for each of the determined users, identifying a module that can provide context information for that user; and

repeatedly modeling a current context of the predefined group, by

gathering from the identified modules current context information for the determined users that is related to the represented characteristic;

modeling the represented characteristic of the current context of the group based on the gathered current context information.

132. (Currently Amended) A portable computer for providing information about a current context of a predefined group of multiple users, the context of the group modeled with multiple context attributes, comprising:

a memory;

an input module that when executed in the memory is capable of receiving an indication of one of the context attributes that represents a characteristic of the current shared context of the predefined group; and

a group context modeler component that when executed in the memory is capable of repeatedly modeling the current shared context of the predefined group based on current context

information for the determined users related to the represented characteristic that is gathered from modules identified for each of the users.

133. (Original) The portable computer of claim 132 further comprising a context information provider component capable of providing the gathered context information.

134. (Canceled.)

135. (Previously Presented) The method of claim 79 wherein the group having multiple members is a predefined group, and including receiving an indication of the predefined group.

136. (Previously Presented) The method of claim 79 wherein the group having multiple members is a transient group that is identified after the received indication of the one attribute.

137. (Previously Presented) The method of claim 115 further comprising repeatedly modeling a current shared context of a transient group of multiple users who are dynamically identified.

138. (Previously Presented) A method in a computing system for providing information about a current shared context of a group of multiple users of portable computers, the context of the group modeled with multiple context attributes, the method comprising:

receiving an indication of one of the context attributes that represents a characteristic of the shared context of the group;

determining at least some of the multiple users whose contexts are related to the represented characteristic;

for each of the determined users, identifying a module that can provide context information for that user; and

repeatedly modeling the current shared context of the group, by

gathering from the identified modules current context information for the users that is related to the represented characteristic;

generating a current value for the one context attribute based on the gathered current context information to represent the current shared context of the group for the represented characteristic; and

providing the generated current value.

139. (New) The method of claim 94 further comprising generating a value for the indicated one attribute based on the gathered information, and providing an indication of the generated value of the one attribute.

140. (New) The method of claim 94 wherein each of the determined characterization modules executes on a distinct computer and models a state of a user of that computer, and wherein the group includes the users of the distinct computers.

141. (New) The method of claim 94 wherein each of the determined characterization modules executes on a distinct computer and models a state of that computer, and wherein the group includes the distinct computers.

142. (New) The method of claim 94 wherein the first state aspect modeled by the one attribute represents an aggregation of state information for each of the members of the group.

143. (New) The method of claim 94 wherein the first state aspect modeled by the one attribute represents a collective aspect of the members of the group.

144. (New) The method of claim 94 wherein the first state aspect modeled by the one attribute represents state information for a selected subset of the members of the group.

145. (New) The method of claim 94 wherein the first state aspect modeled by the one attribute represents a state shared by each of the members of the group.

146. (New) The method of claim 94 wherein a user of the first computer is one of the members of the group.

147. (New) The method of claim 94 wherein the indicated one attribute models information about a mental state of the members of the group.

148. (New) The method of claim 94 wherein the indicated one attribute models information about a physical environment of the members of the group.

149. (New) The method of claim 94 wherein the indicated one attribute models information about a cyber-environment of the members of the group.

150. (New) The method of claim 94 including receiving a request from a client for a value of the indicated one attribute and supplying the value to the client.

151. (New) The method of claim 94 wherein receiving of the supplied value by the client prompts the client to present information to a user.

152. (New) The method of claim 94 wherein the determined characterization modules are hierarchically organized such that at least some of the characterization modules are supervisors each having an associated group of other subordinate characterization modules, and wherein the first state aspect modeled by the one attribute is related to a state of the hierarchical organization.

153. (New) The method of claim 94 wherein each of the determined characterization modules is specialized to model a portion of a state of a single user, and wherein the first state aspect modeled by the one attribute is related to a state of the user that is represented by a combination of information for multiple of the modeled portions.

154. (New) A computer-readable medium whose contents cause a computing device to provide information about a state of a group that is represented with multiple attributes, the group having multiple members, by performing a method comprising:

receiving an indication of one of the attributes that models a first aspect of the state of the group;

determining multiple characterization modules that each have access to aspects of state information for at least one of the members of the group such that the aspects are related to the indicated one attribute;

gathering information about the aspects of the state information that are related to the indicated one attribute from the determined characterization modules so that a value for the indicated one attribute can be generated based on the gathered information;

determining whether the information gathered from one of the determined characterization modules satisfies a criteria; and

when it is determined that the gathered information does not satisfy the criteria, obtaining additional information from the one determined characterization module that satisfies the criteria and replacing the gathered information from the one determined characterization module with the obtained additional information.

155. (New) The computer-readable medium of claim 154 wherein the method further comprises generating a value for the indicated one attribute based on the gathered information, and providing an indication of the generated value of the one attribute.

156. (New) The computer-readable medium of claim 154 wherein the first state aspect modeled by the one attribute represents an aggregation of state information for each of the members of the group.

157. (New) The computer-readable medium of claim 154 wherein the first state aspect modeled by the one attribute represents a collective aspect of the members of the group.

158. (New) The computer-readable medium of claim 154 wherein the first state aspect modeled by the one attribute represents a state shared by each of the members of the group.

159. (New) The computer-readable medium of claim 154 wherein the determined characterization modules are remote from each other such that the gathering of the information involves gathering distributed information.

160. (New) The computer-readable medium of claim 154 wherein the indicated one attribute models information about a mental state of the members of the group.

161. (New) The computer-readable medium of claim 154 wherein the indicated one attribute models information about a physical environment of the members of the group.

162. (New) The computer-readable medium of claim 154 wherein the indicated one attribute models information about a cyber-environment of the members of the group.

163. (New) The computer-readable medium of claim 154 wherein the method further comprises supplying a value of the indicated one attribute to the client, such that receiving of the supplied value by the client prompts the client to present information to a user.

164. (New) A computing device for providing information about a state of a group that is represented with multiple attributes, the group having multiple members, comprising:

a memory;

a receiver component that when executed in the memory is capable of receiving an indication of one of the attributes that models a first aspect of the state of the group;

a group state component that when executed in the memory is capable of determining multiple characterization modules that each have access to aspects of state information for at least one of the members of the group such that the aspects are related to the indicated one attribute and of gathering information about the aspects of the state information that are related

to the indicated one attribute from the determined characterization modules so that a value for the indicated one attribute can be generated based on the gathered information; and

at least one additional component that when executed in the memory is capable of determining whether the information gathered from one of the determined characterization modules satisfies a criteria and, when it is determined that the gathered information does not satisfy the criteria, of obtaining additional information from the one determined characterization module that satisfies the criteria and replacing the gathered information from the one determined characterization module with the obtained additional information.

165. (New) The computing device of claim 164 further comprising at least one component that is capable of generating a value for the indicated one attribute based on the gathered information and of providing an indication of the generated value of the one attribute.

166. (New) The computing device of claim 164 wherein the first state aspect modeled by the one attribute represents an aggregation of state information for each of the members of the group.

167. (New) The computing device of claim 164 wherein the first state aspect modeled by the one attribute represents a collective aspect of the members of the group.

168. (New) The computing device of claim 164 wherein the first state aspect modeled by the one attribute represents a state shared by each of the members of the group.

169. (New) The computing device of claim 164 wherein the determined characterization modules are remote from each other such that the gathering of the information involves gathering distributed information.

170. (New) The computing device of claim 164 wherein the indicated one attribute models information about a mental state of the members of the group.

171. (New) The computing device of claim 164 wherein the indicated one attribute models information about a physical environment of the members of the group.

172. (New) The computing device of claim 164 wherein the indicated one attribute models information about a cyber-environment of the members of the group.

173. (New) The computing device of claim 164 wherein the indicated one attribute models a current prediction about a future state.

174. (New) The computer-readable medium of claim 108 wherein the first state aspect modeled by the one attribute represents a collective aspect of the members of the group.

175. (New) The computer-readable medium of claim 108 wherein each of the determined modules executes on a distinct computer and models a state of a user of that computer, and wherein the group includes the users of the distinct computers.

176. (New) The computer-readable medium of claim 108 wherein the indicated one attribute models information about a mental state of the members of the group.

177. (New) The computer-readable medium of claim 108 wherein the indicated one attribute models information about a physical environment of the members of the group.

178. (New) The computer-readable medium of claim 108 wherein the first state aspect modeled by the one attribute represents state information for a selected subset of the members of the group.

179. (New) The computing device of claim 111 wherein the first state aspect modeled by the one attribute represents a collective aspect of the members of the group.

180. (New) The computing device of claim 111 wherein each of the determined modules executes on a distinct computer and models a state of a user of that computer, and wherein the group includes the users of the distinct computers.

181. (New) The computing device of claim 111 wherein the indicated one attribute models information about a mental state of the members of the group.

182. (New) The computing device of claim 111 wherein the indicated one attribute models information about a physical environment of the members of the group.

183. (New) The computing device of claim 111 wherein the first state aspect modeled by the one attribute represents state information for a selected subset of the members of the group.

184. (New) The method of claim 138 including modeling the represented characteristic of the shared context of the group based on gathered context information.

185. (New) The method of claim 138 wherein receiving of a provided generated current value by a client prompts the client to present information to a user.

186. (New) The method of claim 138 wherein each of the identified modules executes on a distinct computer and models a context of a user of that computer, and wherein the multiple users include the users of the distinct computers.

187. (New) The method of claim 138 wherein the represented characteristic reflects a physical environment shared by the multiple users.

188. (New) The method of claim 138 further comprising repeatedly modeling a current shared context of a transient group of multiple users who are dynamically identified.

189. (New) The method of claim 138 wherein the represented characteristic reflects a mental state shared by the multiple users.

190. (New) The method of claim 138 wherein the represented characteristic reflects a physical state shared by the multiple users.

191. (New) The method of claim 138 wherein the represented characteristic reflects a collective characteristic of the users.

192. (New) The method of claim 138 wherein each of the identified modules is specialized to model the same aspect of a context of a user, and wherein the represented characteristic reflects an aggregate of the modeled aspects of the contexts of the multiple users.

193. (New) The method of claim 138 wherein the multiple users are part of a hierarchical organization, and wherein the represented characteristic reflects a context of the hierarchical organization.

194. (New) A computer-readable medium containing instructions that when executed cause a computing device to provide information about a current shared context of a group of multiple users of computers, the context of the group modeled with multiple context attributes, by performing a method comprising:

receiving an indication of one of the context attributes that represents a characteristic of the shared context of the group;

determining at least some of the multiple users whose contexts are related to the represented characteristic;

for each of the determined users, identifying a module that can provide context information for that user; and

repeatedly modeling the current shared context of the group, by

gathering from the identified modules current context information for the users that is related to the represented characteristic;

generating a current value for the one context attribute based on the gathered current context information to represent the current shared context of the group for the represented characteristic; and

providing the generated current value.

195. (New) The computer-readable medium of claim 194 wherein receiving of a provided generated current value by a client prompts the client to present information to a user.

196. (New) The computer-readable medium of claim 194 wherein each of the identified modules executes on a distinct computer and models a context of a user of that computer, and wherein the multiple users include the users of the distinct computers.

197. (New) The computer-readable medium of claim 194 wherein the represented characteristic reflects a physical environment shared by the multiple users.

198. (New) The computer-readable medium of claim 194 wherein the represented characteristic reflects a cyber-environment shared by the multiple users.

199. (New) The computer-readable medium of claim 194 wherein the represented characteristic reflects a mental state shared by the multiple users.

200. (New) The computer-readable medium of claim 194 wherein the represented characteristic reflects a physical state shared by the multiple users.

201. (New) The computer-readable medium of claim 194 wherein each of the identified modules is specialized to model the same aspect of a context of a user, and wherein the represented characteristic reflects an aggregate of the modeled aspects of the contexts of the multiple users.

202. (New) A computing device for providing information about a current shared context of a group of multiple users of computers, the context of the group modeled with multiple context attributes, the computing device comprising:

a memory;

an input component that when executed in the memory is capable of receiving an indication of one of the context attributes that represents a characteristic of the shared context of the group; and

at least one other component that when executed in the memory is capable of determining at least some of the multiple users whose contexts are related to the represented characteristic, of identifying a module for each of the determined users that can provide context information for that user, and of repeatedly modeling the current shared context of the group by

gathering from the identified modules current context information for the users that is related to the represented characteristic;

generating a current value for the one context attribute based on the gathered current context information to represent the current shared context of the group for the represented characteristic; and

providing the generated current value.

203. (New) The computing device of claim 202 wherein receiving of a provided generated current value by a client prompts the client to present information to a user.

204. (New) The computing device of claim 202 wherein each of the identified modules executes on a distinct computer and models a context of a user of that computer, and wherein the multiple users include the users of the distinct computers.

205. (New) The computing device of claim 202 wherein the represented characteristic reflects a physical environment shared by the multiple users.

206. (New) The computing device of claim 202 wherein the represented characteristic reflects a cyber-environment shared by the multiple users.

207. (New) The computing device of claim 202 wherein the represented characteristic reflects a mental state shared by the multiple users.

208. (New) The computing device of claim 202 wherein the represented characteristic reflects a physical state shared by the multiple users.

209. (New) The computing device of claim 202 wherein the multiple users are part of a hierarchical organization, and wherein the represented characteristic reflects a context of the hierarchical organization.